



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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DOGMA
MINERALS PROGRAM
FILE COPY

October 28, 1993

Mr. James A. Sittner
Group Mine Engineer
USMX of Utah, Incorporated
141 Union Boulevard, Suite 100
Lakewood, Colorado 80228

Re: Slope angle requirements - Heap Leach Pads, USMX of Utah, Inc., Goldstrike Mine, M/053/005, Washington County, Utah

Dear Mr. Sittner:

I am providing this letter to you as a follow-up to our telephone discussions on October 15, 1993, regarding clarification of our requirements for outslope angles on heap leach pads. Your questions were directed more specifically toward any Division rules, performance standards, policies or guideline documents that would be applicable to these outslope angles during operations.

After reviewing all pertinent rules and related permitting requirements/recommendations, I could find no reference to slope angle requirements that would be applicable to heaps during operations.

The Division recommends that regraded slopes be left at angles not exceeding 2.5h:1v (preferably 3h:1v). Rule R647-4-111.6 requires that slopes be regraded to a stable configuration and be sloped to minimize safety hazards and erosion while providing for successful reclamation.

I hope this satisfies your request for clarification of this issue. Please call me if I can provide any additional information in this regard.

Sincerely,

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

jb
cc: Minerals staff
M053005.ang